

Vacuum Applications Miniature Motorized Stages

VAMMS

Application Systems

Machine Vision

Manual Positions

Motion Control Products

Optical & Mirror Holder

F A Parts

Measurement & Control

FA Electrical Parts

Tool & Measure

Cleanroom & AntiStatic

Index

Piezo Stage

Precision Linear MS

High Speed MS

Motorized Goniometer

Motorized Rotation

Multiaxis Motorized

Industrial Robot

Controller & Driver & Cable

Custom-Built MS

Compact motorized stages used for experiments and inside a chamber of measuring instrument. Compact slim body is effective for space-saving.



Guide

- Fitted with 1m teflon coated cables to directly connect the vacuum motor or vacuum limit switch to the connector of chamber.

Specifications		
Part Number	VAMMS-60YAW	
Mechanical Specifications	Travel or Rotation Range	In the CW or CCW direction to ∞
	Table Size [mm]	φ60
	Feed Screw [mm]	Worm and worm wheel
	Positioning Slide	Bearing
	Stage Material	Aluminum
	Finish	None
	Weight [kg]	0.45
Accuracy Specifications	Resolution (Full)	0.005°
	(Half)	0.0025°
	MAX Speed	20°/sec
	Positional Repeatability	0.02°
	Load Capacity [N]	29.4 (3.0kgf)
Sensor	Lost Motion	0.05°
	Type	None
	Limit Sensor	None
	Origin Sensor	None
	Proximity Origin Sensor	None

Motor / Sensor Specifications		
Motor	Type	Vacuum compatible 5-phase stepping motor 0.66A/phase (Tamagawa Seiki Co., Ltd.)
	Motor Part Number	TS3664N5 (□24mm)
	Step Angle	0.72°
Sensor	Control Output	None
	Output Logic	NORMAL OPEN

Compatible Driver / Controller		
Control System	Compatible Driver	SD-5M, SD-55M, SD-514MSC, SD-5151, SD-525M
	Compatible Controller	ASC-PS, ASC-01, ASC-102, ASC-02, ASC-702, ASCG-101, ASC-302GS, ASC-304GS, ESC-M/ESC-S

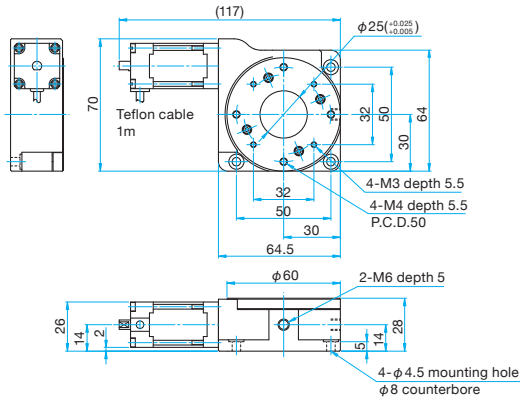
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Outline Drawing

VAMMS-60YAW Hexagonal socket head cap screw M4x10...3 screws

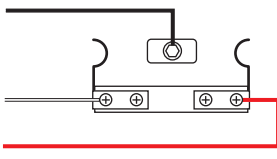


■ Vacuum Limit Switch

GND (0V) black lead

Motor side (+) limit switch
LS (+) white lead

Opposite side (-) limit switch
LS (-) red lead



* Use the motor side and opposite side limit switches as normal open.

■ Wiring of Vacuum Stages

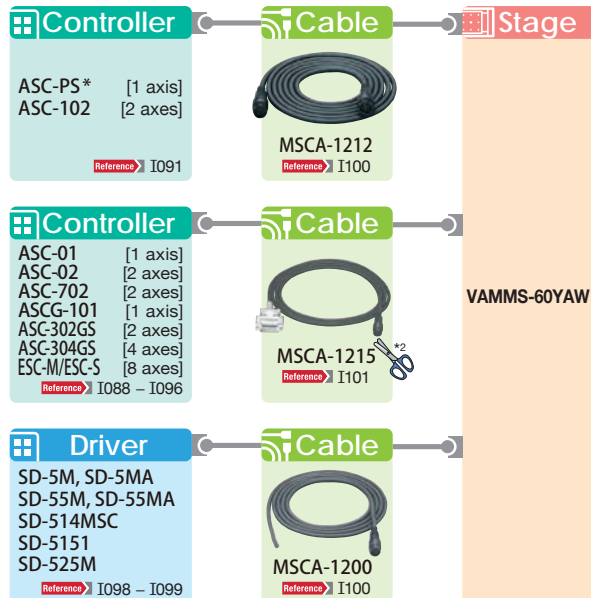
The vacuum compatible stepping motor TS3664N5 used for vacuum stages has five bare lead wires.

For wiring, they correspond to the motor lead colors shown in the wiring diagrams of driver or cable as follows.

(The motor leads shown in the connection diagrams of driver or cable indicate wiring of stepping motors used for normal stages.)

	Vacuum stage motor lead color	Motor lead color shown in driver or cable connection diagram
Corresponding connection	1 Blue	Blue
	2 Red	Red
	3 Red White	Orange
	4 Yellow	Green
	5 Black	Black
	Vacuum compatible stage motor connection diagram	5-phase stepping motor connection diagram (SGSP series)

■ Compatible Controllers / Drivers and Cables



* PASC-PS will be discontinued in September 2012, and will be replaced by ASC-01.
 *2 Make the cable into bare wire specification after purchase.

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